Philips
LCD monitor, LED backlight with SmartImage

S-line

23"/58.4 cm Full HD display

231S4LSB

Sustainable productivity

with energy efficient LED display

The Philips LED display using 25% recycled materials and PVC, BFR free housing is ideal for eco-friendly productivity

Sustainable Eco-design

- 25% recycled material with EPEAT Gold
- PVC-BFR free housing
- 100% recyclable packaging
- Zero mercury content
- SmartPower: Up to 50% power saving
- 0.1 watt Soft-Off mode

Great performance

- LED technology ensures natural colours
- SmartContrast gives enhanced rich black details
- TrueVision ensures lab quality images

Easy to experience

- Modern Touch controls
- SmartImage presets for easy optimised image settings
- SmartControl for easy performance tuning

PHILIPS

sense and simplicity

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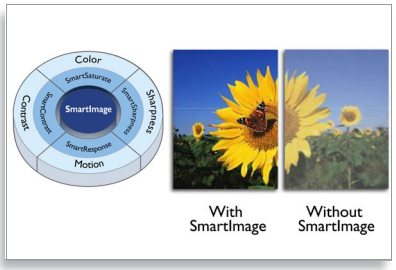
Highlights

LED technology

White LED's are solid state devices which light up to full, consistent brightness faster saving startup time. LED's are free from mercury content, which allows for eco-friendly recycling and disposal process. LED's allow for better dimming control of the LCD backlight, resulting in a super high contrast ratio. It also gives superior colour reproduction thanks to consistent brightness across the screen.

SmartImage



SmartImage is an exclusive leading edge Philips technology that analyses the content displayed on your screen and optimises your display performance. This user-friendly interface allows you to select various modes, like Office, Photo, Movie, Game, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimises the contrast, colour saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time at the touch of a single button!

SmartContrast

SmartContrast is a Philips technology that analyses the contents you are displaying, automatically adjusting colours and controlling backlight intensity to dynamically enhance contrast for the best digital images and videos or when playing games where dark hues are displayed. When Economy mode is selected, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

TrueVision

TrueVision is a proprietary Philips technology that uses an advanced algorithm for testing and aligning the monitor display, which gives you the ultimate display performance 4 times more stringent than Windows sRGB requirements. Only Philips ensures each and every monitor that leaves the factory is fine tuned with this process so you can get consistent colour and picture quality.

EPEAT Gold

Philips EPEAT GOLD certified monitors ensure protection for human health and the environment, and are highly energy efficient ensuring low emissions of climate changing green house gases. The EPEAT programme helps purchasers evaluate, compare and select Monitors based on 51 environmental criteria supported by the US EPA. GOLD certification ensures that at least 30% of plastic used is Post Consumer Resin, which ensures reduction in the use of toxic and hazardous materials. EPEAT Gold is valid only where Philips registers the product. Please visit www.epeat.net for the registration status in your country.

PVC-BFR free housing

This Philips monitor housing is free from brominated flame retardant and polyvinyl chloride (PVC-BFR free)

Zero mercury content

Philips monitors with LED backlighting are free of Mercury content, one of the most toxic natural substances, which affects humans and animals. This allows for an eco-friendly display throughout its life-cycle, from manufacturing to disposal.

SmartPower

SmartPower is an artificial intelligent technology which dynamically analyses the content of the screen image to achieve power saving. The backlight intensity can be controlled automatically and pre-set by the system to reduce the power consumption by up to 50%, which saves substantially on energy costs

SmartControl for easy tuning

PC software for fine tuning display performance and settings. Philips offers users two choices for display setting adjustment. Either navigate the multi-level On-Screen Display menu through buttons on the display itself or use the Philips SmartControl software to easily adjust the various display settings in a familiar way

SmartImage™ LED epeat GOLD Hg Free 0.1W Standby Mode SmartPower TCO CERTIFIED energy ENERGY STAR Compatible with Windows 7

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Specifications

Picture/Display
- LCD panel type: TFT-LCD
- Backlight type: W-LED system
- Panel Size: 23 inch/58.4 cm
- Effective viewing area: 509.18 (H) x 286.41 (V)
- Aspect ratio: 16:9
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Response time (typical): 5 ms
- Brightness: 250 cd/m²
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000:1
- Pixel pitch: 0.265 x 0.265 mm
- Viewing angle: 170° (H)/160° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Display colours: 16.7 M
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB

Connectivity
- Signal Input: DVI-D (digital, HDCP), VGA (Analogue)
- Sync Input: Separate Sync, Sync on Green

Convenience
- User convenience: SmartImage, Brightness, SmartPower, Menu, Power On/Off
- Control software: SmartControl Premium
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7/Vista/XP

Stand
- Tilt: -5/20 degree

Power
- ECO mode: 15.3W (typ.)
- On mode: 21.3W (typ.) (EnergyStar 5.0 test method)
- Standby mode: 0.1 W
- Off mode: 0.1 W
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Power supply: 100-240 VAC, 50-60 Hz, Built-in

Dimensions
- Product with stand (mm): 547 x 431 x 207 mm
- Product without stand (mm): 547 x 343 x 60 mm
- Packaging in mm (W x H x D): 589 x 478 x 139 mm

Weight
- Product with stand (kg): 3.68 kg
- Product without stand (kg): 3.03 kg
- Product with packaging (kg): 5.84 kg

Operating conditions
- Temperature range (operation): 0°C to 40°C °C
- Temperature range (storage): -20°C to 60°C °C
- Relative humidity: 20–80% %
- MTBF: 30,000 hour(s)

Sustainability
- Environmental and energy: EnergyStar 5.0, EPEAT Gold*, RoHS
- Recyclable packaging material: 100 %
- Recycled material: 25%
- Specific Substances: PVC/BFR free housing, Mercury free, Lead free

Compliance and standards
- Regulatory Approvals: BSMI, CE Mark, FCC Class B, GOST, SASO, SEMKO, TCO 5.2, TUV Ergo, TUV/GS, UL/cUL, WEEE

Cabinet
- Front bezel: Black
- Rear cover: Black
- Foot: Black
- Finish: Texture

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